Department of

Environmental Protection

Division of Air Resource Management

SUBMITTED APPLICATION REPORT APPLICATION FOR AIR PERMIT - LONG FORM

---- Form Effective 03/11/10 ----

Application Number: 3836-1

Application Name: MD-NDLF

Date Submitted: 25 August 2014

I. APPLICATION INFORMATION

Air Construction Permit - Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit - Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

| 1. | Facility Owner/Company Name: MIAMI-DADE SOLID WASTE MANAGEMENT | | | | | |
|----|---|---|----------------------|-----------------|---------------------------------|--|
| 2. | Site Name: MIAMI DADE SOLID WSTE MGMT/NO DADE LF | | | | | |
| 3. | Facility Identification Number: 0250603 | | | | | |
| 4. | Facility Location Street Address or Other Locator: City: MIAMI | 21490 N.W.4 21500 N.W.4 County: MIA | 7 AV 7 AV MI-D | E. E. ADE | Zip Code: 33055 | |
| 5. | Relocatable Facility? | | 6. | Existing T | Title V Permitted Facility □ No | |

Application Contact

| 1. | Application Contact Name: | Application | Contact Job Title: |
|----|---|------------------|----------------------------|
| | GERMAN HERNANDEZ | Manager, Er | nvironmental Affairs, PWWM |
| 2. | Application Contact Mailing Address | | |
| | Organization/Firm: MIAMII-DADE COUNT WASTE MANAGEMEN | 'Y DEPARTME T | NT OF PUBLIC WORKS AND |
| | Street Address: 2525 NW 62 STREET | | |
| | 5TH FLOOR | | |
| | City: MIAMI | State: FL | Zip Code: 33147 |
| 3. | Application Contact Telephone Numbers | | |
| | Telephone: (305) 514-6673 ext. | Fax: (3 | 05) 514-6874 |
| 4. | Application Contact Email Address: germanh | @miamidade.go |)V |

<u>Purpose of Application</u> This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

- □ Air construction permit.
- □ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- ☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- $\hfill\square$ Initial Title V air operation permit.
- \square Title V air operation permit revision.
- ☑ Title V air operation permit renewal.
- □ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- □ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit

(Concurrent Processing)

- \Box Air construction permit and Title V permit revision, incorporating the proposed project.
- \square Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

 \Box I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

L

| Scol | ne | of | A | nn | lice | ation |
|------|----|----|---|---------------|------|-------|
| Scu | pι | UI | | \mathbf{PP} | nu | uon |

| Emissions Unit ID Number | Description of Emissions Unit | Air Permit Type |
|--------------------------------|-------------------------------|-----------------------|
| 2 | Enclosed Flare model GF-1000 | AV05 |
| 1 | LANDFILL | AV05 |

Note: The fee calculation information associated with this application may be accessed from the Main Menu of ESPAP.

Owner/Authorized Representative Statement Complete if applying for an air construction permit or an initial FESOP.

| 1. | Owner/Authorized Repres | sentative Name: | Owner/Au | uthorized Representative Job Title: | |
|----|---|--------------------|-----------|-------------------------------------|--|
| 2. | Owner/Authorized Representative Mailing Address | | | | |
| | Organization/Firm: | | | | |
| | Street Address: | | | | |
| | City: | | State: | Zip Code: | |
| 3. | Owner/Authorized Repres | sentative Telephon | e Numbers | | |
| | Telephone: () - | ext. | Fax: | | |
| 4. | Owner/Authorized Repres | sentative Email Ad | ldress: | | |
| 5. | Owner/Authorized Repres | sentative Statemen | t: | | |

Application Responsible Official Certification

| 1. | Application Responsible Official Name: | | | | |
|----|--|--|--|--|--|
| | GERMAN HERNANDEZ | | | | |
| 2. | Application Responsible Official Qualification (Check one or more of the following options, as applicable): | | | | |
| | □ For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. | | | | |
| | \Box For a partnership or sole proprietorship, a general partner or the proprietor, respectively. | | | | |
| | For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. | | | | |
| | ☐ The designated representative at an Acid Rain source or CAIR source. | | | | |
| 3. | Application Responsible Official Mailing Address | | | | |
| | Organization/Firm: MIAMI-DADE DEPARTMENT OF SOLID WASTE MANAGEMENT | | | | |
| | Street Address: 2525 NW 62 ST. SUITE 5100 | | | | |
| | City: MIAMI State: FL Zip Code: 33147 | | | | |
| 4. | Application Responsible Official Telephone Numbers | | | | |
| | Telephone: (305)514-6673 ext. Fax: (305)514-6874 | | | | |
| 5. | Application Responsible Official Email Address: germanh@miamidade.gov | | | | |
| 6. | Application Responsible Official Certification: By entering my PIN below, I certify that I am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject. | | | | |

| Prof | essional Engineer Certification |
|------|---|
| 1. | Professional Engineer Name: Professional Engineer Job Title: |
| | MAURICE HOGG Project Engineer |
| | Registration Number: 75532 |
| 2. | Professional Engineer Mailing Address |
| | Organization/Firm SCS ENGINEERS |
| | Street Address: 6115 LYONS ROAD |
| | City: COCONUT CREEK State: FL Zip Code: 33073 |
| 3. | Professional Engineer Telephone Numbers |
| | Telephone: (954) 571-9200 ext. Fax: |
| 4. | Professional Engineer Email Address: RHOGG@SCSENGINEERS.COM |
| 5. | Professional Engineer Statement: |
| | I hereby certify, except as particularly noted herein*, that: |
| | (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and (2) To the best of my knowledge, any emission estimates reported or relied on in this application |
| | are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application. |
| | (3) If the purpose of this application is to obtain a Title V air operation permit (check here \Box , if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application. |
| | (4) If the purpose of this application is to obtain an air construction permit (check here \Box , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \Box , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application. |
| | (5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here \Box if so). I further certify that with the exception of any changes detailed as part of this |

 \Box , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with

all provisions contained in such permit.

* Explain any exception to the certification statement.

Professional Engineer Exception Statement:

II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION Facility Location and Type

| <u>active Docation and Type</u> | | | | | |
|---|------------------------------------|---|--------------------------------------|--|--|
| 1. Facility UTM Coord | linates | 2. Facility Latitude/Longitude | | | |
| Zone 17 | East (km) 570.67 | Latitude (DD/MM/SS) 25° 58` 4" N | | | |
| North (km) 2872.14 | | Longitude (DD/MM/SS) 80° 17` 13" W | | | |
| Governmental Facility Code: (3) SOURCE OWNED OR OPERATED BY THE COUNTY | 4. Facility Status Code: Active | 5. Facility Major Group SIC Code: (49) ELECTRIC, GAS AND SANITARY SERVICES | 6. Facility SIC(s): Primary: 4953 | | |
| 7. Facility Comment: | | | | | |

Facility Contact

| 1. | Facility Contact Name: | Facility Contact J | ob Title: | | |
|----------------------------|--|---------------------------|----------------------|--|--|
| | ARMANDO CABRERA | ENVIRONMENT SUPERVISOR | TAL RESOURCE PROJECT | | |
| 2. | Facility Contact Mailing Address | | | | |
| | Organization/Firm: MIAMI-DADE PUBLIC V DEPARTMENT | VORKS AND WAS | TE MANAGEMENT | | |
| | Street Address: 2525 NW 62 STREET, 5T | H FLOOR | | | |
| | City: MIAMI | State: FL | Zip Code: 33147 | | |
| 3. | Facility Contact Telephone Numbers | | | | |
| | Telephone: (305) 474-7002 ext. Fax: (305) 474- | 4-7224 | | | |
| 4. | Facility Contact Email Address: armando2@m | iamidade.gov | | | |
| <u>Faci</u> Con "pri | Facility Primary Responsible Official Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official." | | | | |

| 1. | Facility Primary Responsible Official Name: GERMAN HERNANDEZ | Facility Primary Res Manager, Environme | ponsible Official Job Title: ental Affairs | |
|----|---|--|---|--|
| 2. | Facility Primary Responsible Official Mailing A | y Primary Responsible Official Mailing Address | | |
| | Organization/Firm: MIAMI-DADE DEPARTM Street Address: 2525 NW 62 ST. SUITE 510 | ENT OF SOLID WAS 00 | STE MANAGEMENT | |
| | City: MIAMI | State: FL | Zip 33147 Code: | |
| 3. | Facility Primary Responsible Official Telephone Telephone: (305) 514-6673 ext. Fax: (305) 514- | e Numbers -6874 | | |

4. Facility Primary Responsible Official Email Address: germanh@miamidade.gov

<u>Facility Regulatory Classifications</u> Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

| 1. | | Small Business Stationary Source 🛛 Unknown |
|-----|------------------|--|
| 2. | | Synthetic Non-Title V Source |
| 3. | • | Title V Source |
| 4. | • | Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs) |
| 5. | | Synthetic Minor Source of Air Pollutants, Other than HAPs |
| 6. | | Major Source of Hazardous Air Pollutants (HAPs) |
| 7. | | Synthetic Minor Source of HAPs |
| 8. | ~ | One or More Emissions Units Subject to NSPS (40 CFR Part 60) |
| 9. | ~ | One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60) |
| 10. | ~ | One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63) |
| 11. | | Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5)) |
| 12. | Fac The WV | ility Regulatory Classifications Comment: e design capacity > 2.5 million tons and qualifies as a Title V source under 40 CFR 60 subpart VW. |

| 1. Pollutants Emitted | 2. Pollutant Classification | Emissions Cap [Y or N]? |
|--------------------------|---|-------------------------------|
| NMOC | (A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS. | Ν |
| PM | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |
| HAPS | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |
| PM10 | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |
| SO2 | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |
| NOX | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | Ν |
| СО | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |
| VOC | (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS | N |

List of Pollutants Emitted by Facility

| ra | acinty-wide or Multi-Unit Emissions Caps | | | | | | | | | | |
|----|---|------|--|-----|--|-----|-----------------------|----|---------------------------|----|-------------------------------|
| 1. | Pollutant Subject to Emissions Cap | 2. | Facility Wide Cap [Y or N]? (all units) | 3. | Emissions Unit ID No.s Under Cap (if not all units) | 4. | Hourly Cap (lb/hr) | 5. | Annual Cap (ton/yr) | 6. | Basis for Emissions Cap |
| 7. | Facility-Wi | de o | or Multi-Unit | Emi | issions Cap Com | mer | ıt: | | | | |

B. Emissions Caps <u>Facility-Wide or Multi-Unit E</u>missions Caps

C. FACILITY ADDITIONAL INFORMATION Additional Requirements for All Applications, Except as Otherwise Stated

| Tuu | tional Regul chents for the applications, Except as Other wise Stated | |
|---------|--|---|
| 1. | Facility Plot Plan: (Required for all permit applications, except Title V air revision applications if this information was submitted to the department w years and would not be altered as a result of the revision being sought) | operation permit ithin the previous five |
| | Applicable Previously Submitted, Date: | ✓ Attachment |
| 2. | Process Flow Diagram(s): (Required for all permit applications, except Titl permit revision applications if this information was submitted to the depart previous five years and would not be altered as a result of the revision bein | le V air operation ment within the g sought) |
| | Applicable Previously Submitted, Date: | Attachment |
| 3. | Precautions to Prevent Emissions of Unconfined Particulate Matter: (Requi applications, except Title V air operation permit revision applications if thi submitted to the department within the previous five years and would not be the revision being sought) | ired for all permit s information was be altered as a result of |
| | □ Applicable □ Previously Submitted, Date: | Attachment |
| <u></u> | | |
| Add | itional Requirements for Air Construction Permit Applications | |
| 1. | Area Map Showing Facility Location: (Not applicable for existing permitte | ed facility) |
| | | □ Attachment |
| 2. | Description of Proposed Construction, Modification, or Plantwide Application | bility Limit (PAL): |
| | | □ Attachment |
| 3. | Rule Applicability Analysis: | |
| | □ Applicable | □ Attachment |
| 4. | List of Exempt Emissions Units: | |
| | □ Applicable | □ Attachment |
| 5. | Fugitive Emissions Identification: | |
| | | □ Attachment |
| 6. | Air Ouality Analysis (Rule 62-212.400(7), F.A.C.): | |
| | □ Applicable | □ Attachment |
| 7. | Source Impact Analysis (Rule 62-212.400(5), F.A.C.): | |
| | | □ Attachment |
| 8. | Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): | |
| | | □ Attachment |
| 9. | Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F | .A.C.): |
| | | ☐ Attachment |
| 10. | Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): | |
| | | □ Attachment |
| L | | |

| Add | litional Requirements for FESOP Applications | |
|-----|---|---|
| 1. | List of Exempt Emissions Units: | |
| | | □ Attachment |
| Add | litional Requirements for Title V Air Operation Permit Applications | |
| 1. | List of Insignificant Activities: (Required for initial/renewal applications, bu applications) | t not for revision |
| | ✓ Applicable | Attachment |
| 2. | Identification of Applicable Requirements (Required for initial/renewal application applications if this information would be changed as a result of the r sought): | ications, and for revision being |
| | Applicable | Attachment |
| 3. | Note: A compliance plan must be submitted for each emissions unit that is no all applicable requirements at the time of application and/or at any time durin processing. The department must be notified of any changes in compliance st application processing. | tations): ot in compliance with a application tatus during |
| | | M Attachment |
| 4. | List of Equipment/Activities Regulated under Title VI (If applicable, require applications only): Applicable Equipment/Activities On site but Not Required to be Individually Listed | d for initial/renewal |
| 5. | Verification of Risk Management Plan Submission to EPA (If applicable, rec initial/renewal applications only): | quired for |
| | | □ Attachment |
| 6. | Requested Changes to Current Title V Air Operation Permit: | |
| | | □ Attachment |
| Add | litional Requirements for Facilities Subject to Acid Rain or CAIR Progra | m: |

| 1. | Acid Rain Program Forms: | | | | | | |
|----|---|--|--------------|--|--|--|--|
| | Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)): | | | | | | |
| | □ Applicable | Previously Submitted, Date: | □ Attachment | | | | |
| | Phase II NOX Ave | raging Plan (DEP Form No. 62-210.900(1)(a)1.): | | | | | |
| | □ Applicable | Previously Submitted, Date: | □ Attachment | | | | |
| | New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.): | | | | | | |
| | □ Applicable | □ Previously Submitted, Date: | □ Attachment | | | | |
| 2. | CAIR Part (DEP F | orm No. 62-210.900(1)(b)): | | | | | |
| | □ Applicable | □ Previously Submitted, Date: | □ Attachment | | | | |

Other Information Regarding this Facility:

1. Other Facility Information:

| \checkmark | Includ | led |
|--------------|--------|-----|
| | | |

Attachment

Additional Requirements Comment

The Executive Summary provides a brief overview of the history and current activities at the site which contribute to emissions. Attachment 7 contains information regarding the stationary internal combustion engines that are on site., and compliance requirements with respect to 40 CFR 63 Subpart ZZZZ.

Facility Attachments

| Supplemental Item | Electronic File Name | Attachment Description | Electronic | Date Uploaded |
|--|---|--|------------|------------------|
| Facility Plot Plan | Figure 1-B - GCCS.pdf | Figure 1-B: Gas Collection System | Yes | 08/20/2014 |
| | Figure 1-A - Site Layout.pdf | Figure 1-A: Facility Site Plan | Yes | 08/20/2014 |
| Process Flow Diagram (s) | NDLF FLOW-DIA- FACILITY.pdf | Facility Attachment 2 - Process Flow Diagram | Yes | 08/20/2014 |
| Precautions to Prevent Emissions of Unconfined Particulate Matter | Attachment3-PM Prevention Measures.pdf | Facility Attachment 3 - PM Prevention Measures | Yes | 08/20/2014 |
| Other Facility Information | Cover Sheet and Executive Summary.pdf | Executive Summary | Yes | 08/25/2014 |
| | Attachment 7 - RICE Info summary (Autosaved).pdf | Facility Attachment 7 - RICE Summary (EU-003) | Yes | 08/20/2014 |
| List of Insignificant Activities | Attachment4-Insignificant Activities.pdf | Facility Attachment 4 - List of Insignificant Activities | Yes | 08/20/2014 |
| Identification of Applicable Requirements | Attachment5-Rule Applicability.pdf | Facility Attachment 5 - Applicable Requirements | Yes | 08/20/2014 |
| Compliance Report and Plan | Attachment6-Compliance Report and Plan.pdf | Facility Attachment 6 - Compliance Report | Yes | 08/20/2014 |

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION tion Parmit Emissions Unit Classification

<u>Title V Air Operation Permit Emissions Unit Classification</u>

- 1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - □ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

| 1. | Type of Emissions U | Unit Addressed in this Sect | ion: (Check one) | | | |
|-----|--|---|---|---|--|--|
| | This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent). | | | | | |
| | This Emissions process or produ | Unit Information Section a activities v | addresses, as a single emiss which produce fugitive em | sions unit, one or more issions only. | | |
| 2. | Description of Emiss LANDFILL | sions Unit Addressed in th | is Section: | | | |
| 3. | Emissions Unit Ident | tification Number: 1 | | | | |
| 4. | Emissions Unit Status Code: A | 5. Commence Construction Date: | 6. Initial Startup Date: | Emissions Unit Major Group SIC Code: 49 | | |
| 8. | Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit | | | | | |
| 9. | Package Unit Model Number: Manufacturer: | | | | | |
| 10. | Generator Nameplate | e Rating: MW | | | | |
| 11. | Emissions Unit Com | ment: | | | | |

Emissions Unit Control Equipment

| Code | Equipment | Description |
|------|----------------------|---|
| 23 | FLARING | Enclosed Flare |
| 60 | PROCESS GAS RECOVERY | Gss collection and control system installed throughout landfill including vertical and horizontal extraction wells; header and lateral piping; and a blower. |

B. EMISSIONS UNIT CAPACITY INFORMATION (Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| 1. | Maximum Process or Throughput Rate: | | |
|----|---|-----------------------|-----------------|
| 2. | Maximum Production Rate: | | |
| 3. | Maximum Heat Input Rate: million Btu/h | r | |
| 4. | Maximum Incineration Rate: | pounds/hr tons/day | |
| | | tons, day | |
| 5. | Requested Maximum Operating Schedule | 2: | |
| | | 24 hours/day | 7 days/week |
| | | 52 weeks/year | 8760 hours/year |
| 6. | Operating Capacity/Schedule Comment: | | |
| | The landfill produces fugitive emissions of | continuously. | |

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

| Emi | nission Point Description and Type | | | | | | |
|-----|--|---------------------------------|--|----------------------------------|--|--|--|
| 1. | Identification of Point on Plo Diagram: EU-001 - Landfill | t Plan or Flow | Emission Po 4 - No true e | int Type Code: emission point | | | |
| 3. | Descriptions of Emission Poi | nts Comprising th | is Emissions Unit | for VE Tracking: | | | |
| 4. | . ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | | | | |
| 5. | Discharge Type Code:(F) FUGITIVE6. Stack HeighEMISSIONS, NO STACKfeetEXISTS6. Stack Heigh | | t: | 7. Exit Diameter: feet | | | |
| 8. | Exit Temperature: ° F | 9. Actual Volu Rate: acfm | metric Flow | 10. Water Vapor: % | | | |
| 11. | . Maximum Dry Standard Flow Rate: dscfm | | 12. Nonstack Emission Point Height:1 feet | | | | |
| 13. | Emission Point UTM Coordinates Zone: East (km): North (km): | | 14. Emission Point Latitude/Longitude Latitude: Longitude: | | | | |
| 15. | Emission Point Comment: NO STACK EXISTING | | | | | | |

D. SEGMENT (PROCESS/FUEL) INFORMATION

| Seg | <u>ment Description and Rate:</u> | Segment 1 of 1 | | | | |
|-----|---|---------------------|--------------|---|--|--|
| 1. | Segment Description (Proces uncollected/fugitive emission | s/Fuel Type): ns | | | | |
| 2. | Source Classification Code (SCC): 3. SCC Units: 50100402 Acre-Years Landfill Existing | | | | | |
| 4. | Maximum Hourly Rate: | 5. Maximum A | Annual Rate: | 6. Estimated Annual Activity Factor: | | |
| 7. | Maximum % Sulfur: | 8. Maximum % | % Ash: | 9. Million Btu per SCC Unit: | | |
| 10. | 0. Segment Comment: This segment accounts for the fugitive emissions from the landfill cells. | | | | | |
| | Is this a valid segment? Yes | | | | | |

| List of Pollutants Emi | itted by Emissions Unit | | | |
|------------------------|-----------------------------------|-------------------------------------|------------------------------------|--------|
| 1. Pollutant Emitted | 2. Primary Control Device Code | 3. Secondary Control Device Code | 4. Pollutant Regulatory Code | Valid? |
| СО | | | NS | No |
| NMOC | PROCESS GAS RECOVERY | FLARING | NS | Yes |
| NOX | | | NS | No |
| PM | | | NS | No |
| VOC | PROCESS GAS RECOVERY | FLARING | NS | Yes |

E. EMISSIONS UNIT POLLUTANTS List of Pollutants Emitted by Emissions Unit

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.) Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: | 2. Total Percent Efficiency of Control: | | | | |
|------|--|---|------|------------|---------------------------|-----------------------|
| | CO - Carbon Monoxide | | | | | |
| 3. | Potential Emissions: lb/hour te | ons/year | 4. | Syn Lin | ithetica nited? Yes | .lly □ No |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): | | | | | |
| | to to | ons/year | | | | |
| 6. | Emission Factor: | | | | 7. Ei | missions Method Code: |
| | Reference: | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): | 8.b. Baselir | ne 2 | 4-mc | onth Pe | riod: |
| | tons/year | From: | | | | To: |
| 9.a. | . Projected Actual Emissions (if required): | 9.b. Projecte | ed N | Aonit | toring I | Period: |
| | tons/year | □ 5 y | ears | 5 | | \square 10 years |
| 10. | 10. Calculation of Emissions: | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

<u>Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions</u> Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: NMOC - Nonmethane Organic Compounds from MSW Landfill | Total Percent Efficiency of Control: 75 | | |
|------|---|---|-----------------|--|
| 3. | Potential Emissions: lb/hour 11.17 t | ons/year | 4. Sy Li | ynthetically imited? Yes I No |
| 5. | . Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. | Emission Factor: 595 PPMVD Reference: AP-42 | | | 7. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24-n | nonth Period: To: |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projecto □ 5 y | ed Mon vears | nitoring Period: |
| 10. | 0. Calculation of Emissions: See Attachment EU 001-B for detailed calculation. | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: NDLF is a permitted Class III facility and does not accept MSW. Therefore, total NMOC emissions estimate using the LandGEM model is an estimate based on waste disposed having 50% degradable content. | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

<u>Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions</u> Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

| 1. | Pollutant Emitted: NOX - Nitrogen Oxides | 2. Total Percent Efficiency of Control: | | | | |
|------|--|---|---------------|------------|------------------------|------------------------|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. | Syn Lim | thetic ited? Yes | ally □ No |
| 5. | Range of Estimated Fugitive Emissions (as app to t | olicable): ons/year | | | | |
| 6. | Emission Factor: | | | | 7. E | Emissions Method Code: |
| | Reference: | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24 | -mo | onth P | eriod: To: |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projecto | ed M vears | lonit | oring | Period: |
| 10. | 10. Calculation of Emissions: | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.) Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: PM - Particulate Matter - Total | 2. Total P | erce | ent E | fficien | cy of Control: |
|------|--|------------------------|-------|------------|---------------------------|-----------------------|
| 3. | Potential Emissions: lb/hour te | ons/year | 4. | Syr Lin | nthetica nited? Yes | ally No |
| 5. | Range of Estimated Fugitive Emissions (as app to te | olicable): ons/year | | | | |
| 6. | Emission Factor: | | | | 7. E | missions Method Code: |
| | Reference: | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): | 8.b. Baselin | ne 24 | 4-mo | onth Pe | eriod: |
| | tons/year | From: | | | | To: |
| 9.a. | . Projected Actual Emissions (if required): | 9.b. Projecte | ed N | Aoni | toring | Period: |
| | tons/year | □ 5 y | ears | 5 | | \square 10 years |
| 10. | Calculation of Emissions: | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: VOC - Volatile Organic Compounds | Total P 75 | Percent Ef | fficiency of Control: | |
|------|--|------------------------------------|-------------------|---|--|
| 3. | Potential Emissions: lb/hour 4.36 to | ons/year | 4. Syn Lim | thetically nited? Yes ☑ No | |
| 5. | Range of Estimated Fugitive Emissions (as app to te | olicable): ons/year | | | |
| 6. | Emission Factor: 232 PPMVD Reference: AP-42 | | | 7. Emissions Method (3B) CALCULAT USING EMISSION FACTOR FROM A 42/FIRE SYSTEM OTHER PUBLISH EMISSIONS CALCULATION SOURCE. | Code: ED N AP- I OR IED |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24-mo | onth Period: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Project □ 5 y | ed Monit vears | oring Period: | |
| 10. | Calculation of Emissions: Please refer to Attachment EU 001-B for detailed emissions calculations. | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: NDLF is a permitted Class III facility and does not accept MSW. Therefore, total NMOC emissions estimate using the LandGEM model is an estimate based on waste disposed having 50% degradable content. | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

No Visible Emissions information submitted.

H. CONTINUOUS MONITOR INFORMATION Complete if this emissions unit is or would be subject to continuous monitoring.

No Continuous Monitoring information submitted.

| I. EMISSIONS UNIT ADDITIONAL INFORMATION | |
|--|--|
| Additional Requirements for All Applications, Except as Otherwise Stated | |

| 1. | Process Flow Diagram (Required for all permit applications, except Title revision applications if this information was submitted to the department years and would not be altered as a result of the revision being sought) | V air operation permit within the previous five | | |
|----|--|--|--|--|
| | Applicable Previously Submitted, Date: | Attachment | | |
| 2. | Fuel Analysis or Specification (Required for all permit applications, exception permit revision applications if this information was submitted to the depart previous five years and would not be altered as a result of the revision being \Box Applicable \Box Previously Submitted Date: | to tritle V air operation truent within the ng sought) | | |
| 2 | | | | |
| 3. | air operation permit revision applications if this information was submitted within the previous five years and would not be altered as a result of the re \Box Applicable \Box Previously Submitted, Date: | d to the department evision being sought) | | |
| 4. | Procedures for Startup and Shutdown (Required for all operation permit a V air operation permit revision applications if this information was submit within the previous five years and would not be altered as a result of the re | pplications, except Title tted to the department evision being sought) | | |
| | Applicable | Attachment | | |
| 5. | Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) | | | |
| | Applicable Previously Submitted, Date: | Attachment | | |
| 6. | Compliance Demonstration Reports/Records | | | |
| | □ Applicable □ Previously Submitted, Date: | □ Attachment | | |
| | \Box To Be Submitted, Date (if known): | | | |
| | Previously Submitted Test Date(s)/Pollutants Tested: | | | |
| | To be Submitted Test Date(s)/Pollutants Tested: | | | |
| | Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. | | | |
| 7. | Other Information Required by Rule or Statute Applicable | □ Attachment | | |

Additional Requirements for Title V Air Operation Permit Applications

| 1. | Identification of Applicable Requirements | |
|----|--|--------------|
| | Applicable | Attachment |
| 2. | Compliance Assurance Monitoring Plan | |
| | | □ Attachment |
| 3. | Alternative Methods of Operation | |
| | | □ Attachment |
| 4. | Alternative Modes of Operation (Emissions Trading) | |
| | (Limbstons Traung) | |

Additional Requirements for Air Construction Permit Applications

| 1. | Control Technology Review and Analysis (Rules 62-212.400(10) an CFR 63.43(d) and (e)) | d 62-212.500(7), F.A.C.; 40 |
|-----|--|------------------------------|
| 2. | Good Engineering Practice Stack Height Analysis (Rule 62-212.400 212.500(4)(f), F.A.C.) | (4)(d), F.A.C., and Rule 62- |
| | | Attachment |
| 3. | Description of Stack Sampling Facilities (Required for proposed new only) | v stack sampling facilities |
| | | □ Attachment |
| Oth | er Information Regarding this Emissions Unit | |
| 1. | Other Emissions Unit Information | |
| | Applicable | Attachment |

Attachment Attachment Attachment Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful.

Additional Requirements Comment

Attachment 14 contains potential emissions calculations for EU 001.

Emission Unit Attachments

| Supplemental Item | Electronic File Name | Attachment Description | Electronic | Date |
|---|---|---|------------|------------|
| | | | Document | Uploaded |
| Process Flow Diagram | NDLF FLOW-DIA- EU001.pdf | Attachment 8 - EU 001 Process Flow Diagram | Yes | 08/20/2014 |
| Procedures for Startup and Shutdown | EU001 Startup.and.Shutdown.pdf | Attachment 12 - EU 001 Procedures for Startup and Shutdown | Yes | 08/20/2014 |
| Operation and Maintenance Plan | EU001-Operation and Maintenance.pdf | Attachment 11 - EU 001 Operation and Maintenance Plan | Yes | 08/20/2014 |
| Other Emissions Unit Information | Attachment 14 - EU 001 A-B-F Emissions Calculations.pdf | Attachment 14 - EU 001 Detailed Potential to Emit Calculations (NMOC, VOC, HAPs) | Yes | 08/25/2014 |
| Identification of Applicable Requirements | EU-001_Rule Applicability.pdf | Attachment 13 - EU 001 Identification of Applicable Requirements | Yes | 08/20/2014 |

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION tion Parmit Emissions Unit Classification

<u>Title V Air Operation Permit Emissions Unit Classification</u>

- 1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - \Box The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

| 1. | Type of Emissions Unit Addressed in this Section: (Check one) ✓ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). □ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent). □ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. □ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions unit. | | | |
|-----|--|--------------------------------------|-----------------------------|---|
| 2. | Description of Emissions Unit Addressed in this Section: Enclosed Flare model GF-1000 | | | |
| 3. | Emissions Unit Identification Number: 2 | | | |
| 4. | Emissions Unit Status Code: A | 5. Commence Construction Date: | 6. Initial Startup Date: | Emissions Unit Major Group SIC Code: 49 |
| 8. | Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit | | | |
| 9. | Package Unit LFG&E INTERNATIONAL Model Number: GF-1000 Manufacturer: | | | |
| 10. | Generator Nameplate | e Rating: MW | | |
| 11. | Emissions Unit Com The enclosed flare fu | ment: inctions as the emissions c | ontrol device for the landf | ĩll GCCS. |

Emissions Unit Control Equipment

| Code | Equipment | Description |
|------|-----------|--|
| 23 | FLARING | The enclosed flare destroys LFG collected by the landfill gas collection system. |

B. EMISSIONS UNIT CAPACITY INFORMATION (Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| 1. | Maximum Process or Throughput Rate: 1000 SCFM | | | | | |
|----|---|---------------|-----------------|--|--|--|
| 2. | Maximum Production Rate: | | | | | |
| 3. | Maximum Heat Input Rate: 30.3 million Btu/hr | | | | | |
| 4. | Maximum Incineration Rate: pounds/hr tons/day | | | | | |
| 5. | Requested Maximum Operating Schedul | e: | | | | |
| | | 24 hours/day | 7 days/week | | | |
| | | 52 weeks/year | 8760 hours/year | | | |
| 6. | Operating Capacity/Schedule Comment: | | | | | |
| | The enclosed flare is currently permitted to operate continuously. Max heat input = (1000 scfm * 1012 BTU/scf * 50% CH4 * 60 min/hr)/106 BTU/mmBTU. | | | | | |

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

| Emi | ssion Point Description and | <u>Type</u> | | | | |
|-----|---|--|---|---|--|--|
| 1. | Identification of Point on Plo Diagram: EU-002 | t Plan or Flow | 2. Emission Point Type Code: 1 - A single emission point serving a single emissions unit | | | |
| 3. | Descriptions of Emission Poi | nts Comprising th | is Emissions Unit | for VE Tracking: | | |
| 4. | ID Numbers or Descriptions | of Emission Units | with this Emissio | n Point in Common: | | |
| 5. | Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION | Stack Height: 30 feet | | 7. Exit Diameter: 6.9 feet | | |
| 8. | Exit Temperature: 1100° F | 9. Actual Volu Rate: acfm | metric Flow | 10. Water Vapor: 99 % | | |
| 11. | Maximum Dry Standard Flow Rate: 1000 dscfm | | 12. Nonstack Emission Point Height: feet | | | |
| 13. | Emission Point UTM Coordin Zone: East (km) North (km) | nates : : | 14. Emission Point Latitude/Longitude Latitude: Longitude: | | | |
| 15. | Emission Point Comment: | | | | | |

D. SEGMENT (PROCESS/FUEL) INFORMATION

| Segi | nent Description and Rate: | Segment I of I | | | | | |
|------|--|-------------------------|--|---|--|--|--|
| 1. | Segment Description (Process/Fuel Type): Landfill gas/methane | | | | | | |
| 2. | Source Classification Code (S 50100410 | SCC): | SCC Units: Million Cubic Feet Waste Gas Burned | | | | |
| 4. | Maximum Hourly Rate: 30.4 | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: | | | |
| 7. | Maximum % Sulfur: .0005 | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: 506 | | | |
| 10. | Segment Comment: | | | | | | |
| | Is this a valid segment? Yes | | | | | | |

| | E. EMISSIONS | UNIT POLLUTANTS |
|----------------------------|---------------------|------------------------|
| List of Pollutants Emitted | by Emissions Unit | |

| 1. Pollutant Emitted | 2. Primary Control Device Code | 3. Secondary Control Device Code | 4. Pollutant Regulatory Code | Valid? |
|----------------------|-----------------------------------|-------------------------------------|------------------------------------|--------|
| СО | | | NS | Yes |
| HAPS | FLARING | | NS | Yes |
| NMOC | | | NS | Yes |
| NOX | | | NS | Yes |
| PM10 | | | NS | Yes |
| SO2 | | | NS | Yes |
| VOC | FLARING | | WP | Yes |

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: CO - Carbon Monoxide | 2. Total Percent Efficiency of Control: | | | | |
|------|--|--|------|------------|-----------------------|---|
| 3. | Potential Emissions: 11.23 lb/hour 49.2 to | ons/year | 4. | Syn Lin | nthet nitec Yes | tically 1? 5 V No |
| 5. | Range of Estimated Fugitive Emissions (as app to te | olicable): ons/year | | | | |
| 6. | Emission Factor: .37 LB/MMBTU Reference: MANUAFACTURER | | | | 7. | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 2 | 4-m | onth | Period: To: |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period:□5 years□10 years | | | | |
| 10. | Calculation of Emissions: Please refer to Attachment EU 002-A for detail | led calculation | ons. | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: Estimated 49.2 tpy of CO based on manufacturer's design of the flare. | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

<u>Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions</u> Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: HAPS - Total Hazardous Air Pollutants | | Total Percent Efficiency of Control: 98 | | | | |
|------|---|--------------|--|---------------|-------------------|-----------------------|---|
| 3. | Potential Emissions: lb/hour .14 | tc | ons/year | 4. | Syr Lin | nthet niteo Yes | tically 1? s I No |
| 5. | Range of Estimated Fugitive Emissions (as a tr | ipp] o tc | licable): ons/year | | | | |
| 6. | Emission Factor: PPMVD Reference: AP-42 | | | | | 7. | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | | 8.b. Baselir From: | ne 2 | 4-m | onth | Period: To: |
| 9.a. | . Projected Actual Emissions (if required): tons/year | | 9.b. Projecto □ 5 y | ed N rears | Aoni ^s | torir | ng Period: |
| 10. | Calculation of Emissions: Please refer to Attachment EU 002-C for det on specific HAP. | aile | ed calculatio | ons. | Emis | ssio | ns factor varies depending |
| 11. | Pollutant Potential, Fugitive, and Actual Emi The enclosed flare is the control device for t | ssic he (| ons Commer GCCS. | nt: | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

<u>Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions</u> Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: NMOC - Nonmethane Organic Compounds from MSW Landfill | Total Percent Efficiency of Control: 98 | | | | | |
|------|---|---|----------------|------------|-----------------------|---|--|
| 3. | Potential Emissions: lb/hour .263 | tons/year | 4. | Syr Lin | nthet nited Yes | tically 1? 5 | |
| 5. | Range of Estimated Fugitive Emissions (as ap to | plicable): tons/year | | | | | |
| 6. | Emission Factor: 595 PPMVD Reference: AP-42 | | | | 7. | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. | |
| 8.a. | . Baseline Actual Emissions (if required): | 8.b. Baseli | ne 2 | 4-mo | onth | Period: | |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Project | ted N years | Aoni 5 | torin | ng Period: | |
| 10. | Calculation of Emissions: Please see Attachment EU 002-B for detailed | calculations. | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: Note that the enclosed flare operates as the control device for the landfill gas captured by the GCCS. | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| - | | _ | | |
|----|--|---------------|--|-----------|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 2002-09-30 | 3 |
| 3. | Allowable Emissions and Units: 98 PERCENT REDUCTION IN EMISSIONS | 4. | Equivalent Allowable Emissions: lb/hour | tons/year |
| 5. | Method of Compliance: | | | |
| 6. | Allowable Emissions Comment (Description o [End - 12/31/2012] RN : cngd frq base date fro lmt. Shwd cmplnce with other allw seq. | f Op om 20 | erating Method): 002 to 2007; unit has this limit or N | MOC exhst |

Allowable Emissions Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 2002-09-30 | e |
|----|---|---------------|--|-----------|
| 3. | Allowable Emissions and Units: 20 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable Emissions: lb/hour | tons/year |
| 5. | Method of Compliance: stack test | | | |
| 6. | Allowable Emissions Comment (Description of [End - 12/31/2012] The standard is 20 PPMV of | f Op lry b | erating Method): asis as Hexane at 3% O2. | |

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: NOX - Nitrogen Oxides | 2. Total Percent Efficiency of Control: | | | | | |
|------|---|---|---------------|------------|-----------------------|---|--|
| 3. | Potential Emissions: 2.06 lb/hour 9.04 to | ons/year | 4. | Syr Lin | nthet nited Yes | tically 1? 5 I No | |
| 5. | Range of Estimated Fugitive Emissions (as app to t | olicable): ons/year | | | | | |
| 6. | Emission Factor: .068 LB/MMBTU Reference: FLARE MANUFACTURER | | | | 7. | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 2 | 4-m | onth | Period: To: | |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projecte | ed N vears | Aoni s | torin | ng Period: | |
| 10. | Calculation of Emissions: Please refer to Attachment EU 002-A for detail | led emissions | s cal | lcula | tion | S | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: An estimated 7.32 tons/yr of NOx based on manufacturer's design of the flare. NOx is a product of combustion and therefore no control of NOx emissions is entered. | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.) Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: PM10 - Particulate Matter - PM10 | 2. Total Percent Efficiency of Control: | | | | |
|------|---|---|--------------|------------|-----------------------|---|
| 3. | Potential Emissions: .51 lb/hour 2.23 to | ons/year | 4. | Syr Lin | nthet niteo Yes | tically 1? 5 |
| 5. | Range of Estimated Fugitive Emissions (as app to t | olicable): ons/year | | | | |
| 6. | Emission Factor: 17 LB/MMCF BURNED Reference: AP-42 | | | | 7. | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24 | 4-mo | onth | Period: To: |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projectø □ 5 y | ed N ears | /loni | torir | ng Period: |
| 10. | Calculation of Emissions: Please refer to Attachment EU 002-A for detail | led emission | s cal | cula | tion | S. |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi Potential PM/PM10 enissuibs are frin LFG bur assumed to be equivalent to total PM10. | ons Commerned and are 1 | nt: not c | consi | dere | ed fugitive. Total PM is |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.) Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | 1. Pollutant Emitted: 2. Total Percent Efficiency of Control: SO2 - Sulfur Dioxide 2. | | | | | | | |
|-----|---|-----|-------------|---------------|--|-------|------------|--|
| 3. | Potential Emissions: 4.68 lb/hour 20.4 | ton | s/year | 4. | 4. Synthetically Limited? □ Yes ☑ No | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | 6. Emission Factor: .0005 PERCENT SULFUR IN FUEL Reference: ASSUMED TRS | | | | | | | |
| 8.a | . Baseline Actual Emissions (if required): | 8 | .b. Baselin | ne 24 | 4-mc | onth | Period: | |
| 9.a | . Projected Actual Emissions (if required): tons/year | 9 | .b. Project | ed N vears | Ionit | torin | ng Period: | |
| 10. | 10. Calculation of Emissions: Please refer to Attachment EU 002-A for detailed PTE calculations. | | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: Potential SOx emissions are from LFG burned and are not considered fugitive. Sulfur content is assumed in the higher range of what is considered normal in LFG from landfilled waste. | | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.) Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: | 2. Total Percent Efficiency of Control: | | | | |
|------|--|---|------|------------|-----------------------|---|
| | VOC - Volatile Organic Compounds | 99.2 | | | | |
| 3. | Potential Emissions: .023 lb/hour .103 to | ons/year | 4. | Syr Lin | nthet nited Yes | tically 1? 5 |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | | | | |
| 6. | 5. Emission Factor: 232 PPMVD Reference: AP-42 7. Emissions Method Code (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OF OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. | | | | | Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE. |
| 8.a. | Baseline Actual Emissions (if required): | 8.b. Baselin | ne 2 | 4-mo | onth | Period: |
| | tons/year | ГІОШ. | | | | 10. |
| 9.a. | Projected Actual Emissions (if required): | 9.b. Project | ed N | Ioni | torir | ng Period: |
| | tons/year | 🗆 5 y | ears | 5 | | \Box 10 years |
| 10. | 0. Calculation of Emissions: Please refer to Attachment EU 002-B for detailed emissions calculations | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: VOC's from flare are uncontrolled emissions from LFG combustion. Control efficiency is from AP-42 Table 2.4-3. | | | | | ontrol efficiency is from |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

| Visi | ble Emissions Limitation: Visible Emissions | s Limitation 1 of 1 | |
|------|---|---|---------------|
| 1. | Visible Emissions Subtype: VE00 - VISIBLE EMISSIONS - 0% NORMAL OPACITY | Basis for Allow ✓ Rule | able Opacity: |
| 3. | Allowable Opacity: Normal Conditions: % Excep Maximum Period of Excess Opacity Allowed: | ptional Conditions: | % min/hour |
| 4. | Method of Compliance: EPA METHOD 22 | | |
| 5. | Visible Emissions Comment: Per 40 CFR 60.18(c) and (f). | | |

H. CONTINUOUS MONITOR INFORMATION Complete if this emissions unit is or would be subject to continuous monitoring.

No Continuous Monitoring information submitted.

□ Attachment

| Add | I. EMISSIONS UNIT ADDITIONAL INF litional Requirements for All Applications, Except as Otherwis | ORMATION se Stated |
|-----|---|--|
| 1. | Process Flow Diagram (Required for all permit applications, excerning excerning applications if this information was submitted to the dep years and would not be altered as a result of the revision being sc | ept Title V air operation permit artment within the previous five bught) |
| | Applicable Previously Submitted, Date: | Attachment |
| 2. | Fuel Analysis or Specification (Required for all permit application permit revision applications if this information was submitted to previous five years and would not be altered as a result of the rev Applicable | ons, except Title V air operation the department within the rision being sought) |
| 3. | Detailed Description of Control Equipment (Required for all perm air operation permit revision applications if this information was within the previous five years and would not be altered as a resul Applicable Previously Submitted, Date: | nit applications, except Title V submitted to the department t of the revision being sought) |
| 4. | Procedures for Startup and Shutdown (Required for all operation V air operation permit revision applications if this information w within the previous five years and would not be altered as a resul ✓ Applicable □ Previously Submitted, Date: | permit applications, except Title as submitted to the department t of the revision being sought) ✓ Attachment |
| 5. | Operation and Maintenance Plan (Required for all permit application permit revision applications if this information was submitted to previous five years and would not be altered as a result of the rev | tions, except Title V air operation the department within the rision being sought) |

| | Applicable | □ Previously Submitted, Date: | Attachment |
|--|--------------------------------|-------------------------------|------------|
|--|--------------------------------|-------------------------------|------------|

| 6. | Compliance Demo | | |
|----|-----------------|-------------------------------------|--|
| | □ Applicable | Previously Submitted, Date: | |
| | | ☐ To Be Submitted, Date (if known): | |

| Previously Su | bmitted Tes | t Date | (s)/Poll | utants | Tested: |
|---------------|-------------|--------|----------|--------|---------|

To be Submitted Test Date(s)/Pollutants Tested:

Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

| 7. | Other Information Required by Rule or Statute | |
|----|---|--------------|
| | | □ Attachment |

Additional Requirements for Title V Air Operation Permit Applications

| 1. | Identification of Applicable Requirements | |
|----|--|--------------|
| | Applicable | Attachment |
| 2. | Compliance Assurance Monitoring Plan | |
| | | □ Attachment |
| 3. | Alternative Methods of Operation | |
| | | □ Attachment |
| 4. | Alternative Modes of Operation (Emissions Trading) | |
| | (Limbstons Traung) | |

Additional Requirements for Air Construction Permit Applications

| 1. | Control Technology Review and Analysis (Rules 62-212.400(10) CFR 63.43(d) and (e)) | and 62-212.500(7), F.A.C.; 40 |
|------------------|--|--------------------------------|
| | | □ Attachment |
| 2. | Good Engineering Practice Stack Height Analysis (Rule 62-212.40 212.500(4)(f), F.A.C.) | 00(4)(d), F.A.C., and Rule 62- |
| | | □ Attachment |
| 3. | Description of Stack Sampling Facilities (Required for proposed n only) | new stack sampling facilities |
| | □ Applicable | □ Attachment |
| | | |
| Oth | er Information Regarding this Emissions Unit | |
| Oth 1. | er Information Regarding this Emissions Unit Other Emissions Unit Information | |

Applicable Attachment Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful.

Additional Requirements Comment

Attachment 14 contains Potential Emissions calculations for EU-002.

| Emission Uni | t Attachments |
|---------------------|---------------|
|---------------------|---------------|

| Supplemental Item | Electronic File Name | Attachment Description | Electronic Document | Date Uploaded |
|---|---|--|------------------------|------------------|
| Process Flow Diagram | NDLF FLOW-DIA- EU002.pdf | Attachment 8 - EU 002 Process Flow Diagram | Yes | 08/25/2014 |
| Fuel Analysis or Specification | EU-001, 002, Fuel Analysis.pdf | Attachment 9 - EU 002 Fuel Analysis | Yes | 08/25/2014 |
| Procedures for Startup and Shutdown | EU002 Startup.and.Shutdown.pdf | Attachment 12 - EU 002 Procedures for Startup and Shutdown | Yes | 08/25/2014 |
| Operation and Maintenance Plan | EU002-Operation and Maintenance.pdf | Attachment 11 - EU 002 Operation and Maintenance Plan | Yes | 08/25/2014 |
| Other Emissions Unit Information | Attachment 14 - EU 002 A-B-C Emissions Calculations.pdf | Attachment 14 - EU 002 Detailed Potential to Emit Calculations (CO, NOx, SO2, PM, HAPs, VOC, NMOC) | Yes | 08/25/2014 |
| Identification of Applicable Requirements | EU-002_Rule Applicability.pdf | Attachment 13 - EU 0002 Identification of Applicable Requirements | Yes | 08/25/2014 |