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Landfill Gas Capture/Combustion Project Submittal Form

Instructions: Please complete all fields as thoroughly as possible. If the project in question is still in the planning/ development phase, all fields must be completed using best available data and estimates based on the proposed system design. This is an interactive Word form. Upon completion, please save this form as a PDF prior to uploading it to the Reserve. This will lock your answers and protect the document from any further changes. All fields must be completed, even if the answer is also provided elsewhere; if a field is not applicable insert N/A in the space provided.

Section 1: Project Contact Information

Project Name: **Leon County Solid Waste Management Facility**

Project Developer: **Leon County**

Facility Owner: **Leon County**

Technical Consultants: **HDR Engineering, Inc**

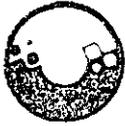
Other Parties with a Material Interest: **N/A**

Date of Form Completion:

Form Completed By (name, organization): **Carlo Lebron - HDR Engineering, Inc.**

Section 2: General Project Site Information

1. Name of Landfill: **Leon County Solid Waste Management Facility**
2. Project Description (Please provide one to two paragraphs): **The landfill has a gas collection and control system consisting of vertical landfill gas extraction wells, interconnection piping and a candlestick flare station. Landfill gas is collected from the extraction wells using a centrifugal blower and combusted in the flare. The flare station has a manufacturer specified destruction efficiency of 98%.**
3. Project Site Address (including county and country): **7550 Apalachee Parkway, Tallahassee, Florida 32311, Leon County, United States**
4. Owner of Landfill (name and organization): **Leon County**
5. Type of landfill (sanitary, controlled, or open dump): **Sanitary**



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6. Type of waste accepted (MSW, demolition debris, organic, etc.): MSW, organic, C&D
7. Average annual quantity of waste accepted at landfill (cubic meters or tonnes): **1 tonne**
(landfill is currently not accepting significant quantities of MSW)
8. Total waste in place (cubic meters or tonnes): **3,753,014 tonnes**
9. Designed landfill capacity (cubic meters or tonnes): **4,684,206 tonnes**
10. Year landfill opened: **1977**
11. Year landfill closed or estimated date of closure: **N/A**

Section 3: Project Eligibility and Monitoring

12. Project Start Date (Date project became operational; format MM/DD/YYYY): **7/1/2006**
13. Project Reporting Start Date (First date for which reductions will be reported on the Reserve; format: MM/DD/YYYY): **1/1/2010**
14. Have any vintage reduction tonnes from the project ever been registered with or claimed by another registry or program, or sold to another third party prior to registering with the Reserve? **No**

If the answer is yes, you must complete and return a "Project Transfer" form.

15. Is the landfill subject to NSPS Regulation? (greater than 2.5 million tonnes capacity)?

YES NO

16. If applicable, date of most recent Tier I or Tier II NMOC test (format MM/DD/YYYY)? **N/A**
 - a. NMOC emissions per year (Mg/year): **10.2 Mg/year (max in 2003)**
 - b. Date at which landfill did or is expected to exceed 50 Mg NMOC per year (format MM/DD/YYYY): **N/A**



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17. Description and citation of all local and state air and water quality, explosive gas, or other regulations pertinent to the landfill or project: **N/A**

18. Is this project being implemented and maintained as the result of any law, statute, regulation, court order, or other preexisting legally binding mandate?

Yes No

If yes, please explain.

19. Has a detailed monitoring plan been developed for this project? If not, what date will a monitoring plan be in place? **A detailed monitoring plan will be developed by HDR Engineering, Inc. and will be in place no less than 1 month prior to the commencement of project start date (January 1, 2010)**

20. What version of the Landfill Project Reporting Protocol is the project based upon? **2.5**

Section 4: Pre-project Information

21. Did the landfill ever collect and destroy landfill gas using a non-qualifying destruction device (e.g. passive flares)?

YES NO

If yes:

- a. What date was this system operational (MM/DD/YYYY):
- b. Please describe (number of wells, destruction devices, etc.):
- c. What deduction will be taken to account for this pre-project destruction?
- d. What is the landfill gas flow rate (in scfm) and methane content?

22. Did the landfill ever collect and destroy landfill gas using a qualifying destruction device (e.g. candlestick flare, engine)?



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YES NO

If yes:

- a. What date was this system operational (MM/DD/YYYY):
- b. Please describe (number of wells, destruction devices, etc.): There are currently 27 wells actively extracting landfill gas from the waste mass, several leachate cleanout connections to provide additional gas extraction and a candlestick flare station.
- c. What deduction will be taken to account for this pre-project destruction? None
- d. What is the landfill gas flow rate (in scfm) and methane content? N/A (flow meter not calibrated, methane meter not currently installed)

Section 5: Landfill Gas Utilization Information for Project Activity

23. Landfill gas utilization (e.g., open-flared, enclosed flare, generation of electricity, use on-site as a boiler or furnace fuel, or sale to a third party): **Open-Flared**

24. If designed to generate electricity:

- a. Type of engine-generator set (e.g., internal combustion engine, micro turbine or fuel cell with the name of the manufacturer, model, power output rating (kW or MJ) for biogas, and nominal voltage : **N/A**
- b. Pretreatment of landfill gas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc. with the names of manufacturers, models, etc.):

N/A

- c. Exhaust gas emission control (e.g., none, catalytic converter, etc.):

N/A

- d. If interconnected with an electric utility:



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- i) Name of the utility: **N/A**
 - ii) Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering): **N/A**
 - iii) If engine-generator set waste heat utilization:
 - iv) Heat source (e.g., cooling system or exhaust gas or both) and heat recovery capacity (Btu or kJ/hr): **N/A**
 - v) Waste heat utilization (e.g., water heating, space heating, etc.): **N/A**
25. If designed to use on-site as a boiler or furnace fuel, a description of the boiler or furnace and rated capacity (Btu or kJ/hr): **N/A**
26. If designed for biogas sale to a third party, a description of the methods of processing, transport, and end use: **N/A**
- i) Pretreatment of Biogas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc.) include names of manufacturer, model etc.: **N/A**
 - ii) Exhaust gas emission controls from gas processing step: **N/A**
27. Provide a summary and citation of the permits obtained to build and operate this Landfill Gas Utilization System): **N/A**
- Additional information: **N/A**
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