

**State of Maine
Regional Greenhouse Gas Initiative
CO₂ Budget Trading Program**



**Offset Project Consistency Application
Landfill Methane Capture and Destruction**

Version 1.0

Issued by **Bureau of Air Quality**

Issued on **June 16, 2009**

Contents

1. Overview	3
2. Submission Instructions	3
3. Consistency Application Forms.....	4
Part 1. General Information Forms.....	4
Part 2. Category-Specific Information and Documentation Forms.....	12
Part 3. Independent Verification Form	22

1. Overview

To demonstrate that a landfill methane capture and destruction project qualifies for the award of CO₂ offset allowances, a Project Sponsor must submit to the Maine Department of Environmental Protection (Department) in accordance with these instructions, a fully completed *Offset Project Consistency Application – Landfill Methane Capture and Destruction Version 1.0* (“*Consistency Application*”), including the coversheet and all forms and related attachments. An incomplete *Consistency Application* will not be reviewed to determine consistency. Following these instructions will ensure that the *Consistency Application* contains all necessary information and is submitted properly.

Each Project Sponsor should review Maine’s *CO₂ Budget Trading Program* regulations, 06-096 CMR Chapter 156, addressing offset projects and the award of CO₂ offset allowances. All offset application materials and other documents are available at www.maine.gov/dep/air/greenhouse/rggi.

Before the *Consistency Application* can be completed, the Project Sponsor must establish a general account and obtain an offset project ID code through the RGGI CO₂ Allowance Tracking System (RGGI COATS). The Project Sponsor identified in the *Consistency Application* must be the same as the Authorized Account Representative for the RGGI COATS general account identified in the *Consistency Application*. For information about establishing a RGGI COATS general account and offset project ID code, consult the RGGI COATS User’s Guide, available at www.rggi-coats.org.

Key eligibility dates and application submittal requirements for offset projects are as follows:

- For offset projects commenced between December 20, 2005 and December 31, 2008, the *Consistency Application* must be submitted by June 30, 2009.
- For offset projects commenced on or after January 1, 2009, the *Consistency Application* must be submitted within six months after the project is commenced.
- For an offset project located solely in one participating state, the *Consistency Application* must be filed with the appropriate regulatory agency in that state.
- For an offset project located in more than one participating state, the *Consistency Application* must be filed in the participating state where the majority of the CO₂-equivalent emissions reduction or carbon sequestration due to the offset project is expected to occur.

2. Submission Instructions

Submit one (1) complete hardcopy original *Consistency Application* to the Department at the location specified below. Also submit the application forms and any attachments electronically to the CO₂ Allowance Tracking System (COATS) at www.rggi-coats.org. Submit hardcopies of forms requiring signatures as originally-signed copies and scan such signed forms for electronic submission. Facsimiles of the *Consistency Application* are not acceptable under any circumstances.

Department of Environmental Protection
17 State House Station
25 Tyson Drive
Augusta, ME 04333-0017

The *Consistency Application* has three parts, as described below. Each part comprises specified forms and required documentation. The *Consistency Application* has been created as a Microsoft Word document with editable fields. Enter information directly into the fields provided or submit information or documentation as an attachment, as directed. Include headers on all attachments indicating the form to which each is attached, the offset project name, and offset project ID code.

The Project Sponsor should save an electronic copy for his or her file to serve as a reference for any necessary remediation.

3. Consistency Application Forms

The *Consistency Application* includes nine (9) forms divided into three parts, as follows:

Part 1. General Information Forms

- Form 1.1 – Coversheet
- Form 1.2 – General Information
- Form 1.3 – Attestations
- Form 1.4 – Project Sponsor Agreement
- Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting

Part 2. Category-Specific Information and Documentation Forms

- Form 2.1 – Project Description
- Form 2.2 – Demonstration of Eligibility
- Form 2.3 – Monitoring and Verification Plan

Part 3. Independent Verification Form

- Form 3.1 – Independent Verifier Certification Statement and Report

The following instructions address each of the forms in numerical order. Note that the forms themselves include many embedded instructions.

Part 1. General Information Forms

The five (5) forms in Part 1 of the *Consistency Application* address general requirements applicable to landfill methane capture and destruction offset projects. Instructions for the Part 1 forms are provided below.

Form 1.1 Coversheet

Enter the requested information in the editable text fields in the form.

Check the boxes to indicate which forms are being submitted. For information about entering the Project Sponsor, offset project name and offset project ID code, and RGGI COATS account name and number, see instructions below for Form 1.2, General Information.

Submit all forms including the Coversheet. If a required form is not submitted, the *Consistency Application* will not be considered complete for commencement of review by the Department.

Form 1.2 General Information

Enter the requested information in the editable text fields in the form. If a text field is not applicable or is unanswerable, enter “NA.” Note the following:

Offset Project ID Code: Enter the offset project ID code. The offset project ID code is the alphanumeric code generated when the Project Sponsor creates a record of the offset project in the RGGI CO₂ Allowance Tracking System (RGGI COATS). See the RGGI COATS User’s Guide for more information about creating an offset project record in RGGI COATS, available at www.rggi-coats.org.

Project Information: Enter project information. The name of the offset project should be the same name entered by the Project Sponsor when creating a project record in RGGI COATS. The project location entered should be the primary location of the project if the project consists of actions at multiple locations. The summary narrative of the project should indicate all locations where project actions occur or will occur.

Project Sponsor: Identify the Project Sponsor and provide his or her contact information. The Project Sponsor is the natural person who is the Authorized Account Representative for the RGGI COATS general account identified in the *Consistency Application*.

Project Sponsor Organization: Provide the full legal name of the organization the Project Sponsor represents, including any alternative names under which the organization also may be doing business (e.g., John Doe Enterprises, Inc., d/b/a JDE). If the Project Sponsor is representing himself or herself as an individual, enter “NA”.

RGGI COATS General Account Name and Number: Enter the RGGI COATS general account name and number. The RGGI COATS general account identified in the *Consistency Application* is the RGGI COATS account into which any awarded CO₂ offset allowances related to the offset project will be transferred.

Form 1.3 Attestations

Sign and date the form. Submit the originally signed form as part of the paper hardcopy *Consistency Application*. Scan the signed and dated form for submission as part of the electronic version of the *Consistency Application*.

If the offset project includes an electric generation component, any and all attribute credits generated by the offset project that may be used for compliance with a renewable portfolio standard (RPS) or other regulatory requirement (other than awarded CO₂ offset allowances), must be transferred to the Department. If applicable, attach a copy of the Attribute Credit Transfer Agreement to this form. The attached agreement must include a header that indicates the transfer agreement is attachment to Form 1.3 and includes the offset project name and offset project ID code.

Form 1.4 Project Sponsor Agreement

Sign and date the form. Submit the originally signed form as part of the paper hardcopy *Consistency Application*. Scan the signed and dated form for submission as part of the electronic version of the *Consistency Application*.

Form 1.5 Disclosure of Greenhouse Gas Emissions Data Reporting

Check the appropriate box in the form to indicate whether greenhouse gas emissions data related to the offset project have been or will be reported to any voluntary or mandatory programs, other than the CO₂ Budget Trading Program. For each program for which data have been or will be reported, provide the program name, the program type (voluntary or mandatory), program contact information (website or street address), the categories of emissions data reported, the frequency of reporting, when the reporting began or will begin, and reporting status (prior, current, future). The Project Sponsor must disclose future reporting related to current commitments made to voluntary programs as well as future reporting mandated by current statutes, regulations, or judicial or administrative orders.

Offset Project Name

Offset Project ID Code

Form 1.1 – Coversheet

Project Sponsor

Project Sponsor Organization

RGGI COATS General Account Name

RGGI COATS General Account Number

Each of the following forms must be submitted. Check the boxes below to indicate that the submitted *Consistency Application* includes each of the required forms:

- Form 1.2 – General Information
- Form 1.3 – Attestations
- Form 1.4 – Project Sponsor Agreement
- Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting
- Form 2.1 – Project Description
- Form 2.2 – Demonstration of Eligibility
- Form 2.3 – Monitoring and Verification Plan
- Form 3.1 – Independent Verifier Certification Statement and Report

Offset Project Name Offset Project ID Code

Form 1.2 – General Information

Project Sponsor (RGGI COATS Authorized Account Representative)

Telephone Number **Fax Number** **Email Address**
Street Address
City **State/Province** **Postal Code** **Country**

RGGI COATS General Account Name

RGGI COATS General Account Number

Name of Offset Project

Application Date

Summary Description of Offset Project

Project City

Project County

Project State

Project Commencement Date

Project Sponsor Organization

Primary Street Address

City

State/Province

Postal Code

Country

Brief Description of Project Sponsor Organization

Telephone Number

Website URL

Independent Verifier (Company/Organization)

States Where Verifier Accredited

Primary Street Address

Website URL

City

State/Province

Postal Code

Country

Point of Contact for Project

Contact Telephone Number

Contact Fax Number

Contact Email Address

Contact Street Address

City

State/Province

Postal Code

Country

Offset Project Name

Offset Project ID Code

Form 1.3 – Attestations

The undersigned Project Sponsor certifies the truth of the following statements:

1. The offset project referenced in this *Consistency Application* is not required pursuant to any local, state, or federal law, regulation, or administrative or judicial order.
2. The offset project referenced in this *Consistency Application* has not and will not be awarded credits or allowances under any other greenhouse gas program.
3. Check the boxes that apply:
 - The offset project referenced in this *Consistency Application* does not include an electric generation component.
 - The offset project referenced in this *Consistency Application* does include an electric generation component. Any and all attribute credits generated by the offset project that may be used for compliance with a renewable portfolio standard (RPS) or other regulatory requirement, with the exception of CO₂ allowances awarded under the CO₂ Budget Trading Program, will be transferred to the Department.
 - An Attribute Credit Transfer Agreement is attached.
4. The offset project referenced in this *Consistency Application* has not and will not receive any funding or other incentives from the Energy and Carbon Savings Trust.
5. A *Consistency Application* for the offset project or any portion of the offset project referenced in this *Consistency Application* has not been filed in any other participating state.
6. All offset projects for which the Project Sponsor or project sponsor organization has received CO₂ offset allowances, if any, under the Project Sponsor's or project sponsor organization's ownership or control (or under the ownership or control of any entity which controls, is controlled by, or has common control with the Project Sponsor or project sponsor organization) are in compliance with all applicable requirements of the CO₂ Budget Trading Program in all participating states.
7. I am authorized to make this submission on behalf of the project sponsor organization. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this *Consistency Application* and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Project Sponsor signature

date

printed name

title

organization

notary

Offset Project Name

Offset Project ID Code

Form 1.4 – Project Sponsor Agreement

The undersigned Project Sponsor recognizes and accepts that the application for, and the receipt of, CO₂ offset allowances under the CO₂ Budget Trading Program is predicated on the Project Sponsor following all the requirements of Maine's CO₂ Budget Trading Program. The undersigned Project Sponsor holds the legal rights to the offset project, or has been granted the right to act on behalf of a party that holds the legal rights to the offset project. The Project Sponsor understands that eligibility for the award of CO₂ offset allowances is contingent on meeting the requirements of Maine's CO₂ Budget Trading Program. The Project Sponsor authorizes the Department or its agent to audit this offset project for purposes of verifying that the offset project, including the Monitoring and Verification Plan, has been implemented as described in this application. The Project Sponsor understands that this right to audit shall include the right to enter the physical location of the offset project. The Project Sponsor submits to the legal jurisdiction of the State of Maine.

Project Sponsor signature

date

printed name

title

organization

notary

Offset Project Name

Offset Project ID Code

Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting

Check the box below that applies:

- No greenhouse gas emissions data related to the offset project referenced in this *Consistency Application* have been or will be reported to a voluntary or mandatory program other than the CO₂ Budget Trading Program.
- Greenhouse gas emissions data related to the offset project referenced in this *Consistency Application* have been or will be reported to a voluntary or mandatory program other than the CO₂ Budget Trading Program. Information for all such programs to which greenhouse gas emissions data have been or will be reported is provided below.

Name of Program to which GHG Emissions Data Reported

Check all that apply:

- Reporting is currently ongoing
- Reporting was conducted in the past
- Reporting will be conducted in the future
- Reporting is mandatory
- Reporting is voluntary

Enter Frequency of Reporting

Enter Reporting Start Date

Program Contact Information – Address

Program Website

Categories of Emissions Data Reported

Name of Program to which GHG Emissions Data Reported

Check all that apply:

- Reporting is currently ongoing
- Reporting was conducted in the past
- Reporting will be conducted in the future
- Reporting is mandatory
- Reporting is voluntary

Enter Frequency of Reporting

Enter Reporting Start Date

Program Contact Information – Address

Program Website

Categories of Emissions Data Reported

Add extra pages as needed.

Part 2. Category-Specific Information and Documentation Forms

The three (3) forms in Part 2 of the *Consistency Application* address category-specific requirements and documentation for landfill methane capture and destruction offset projects. Instructions for the Part 2 forms are provided below.

Form 2.1 Project Description

Attach a detailed narrative of the actions to be taken as part of the offset project. The attached narrative must include a header that indicates it as an attachment to Form 2.1 and identifies the offset project name and offset project ID code. The narrative must include the following information:

1. Type of Project. Indicate the type of project:
 - a. Flaring offset project – Landfill employs an active gas collection system. The flaring system can utilize either an open or enclosed flare.
 - b. Electricity generation offset project – Landfill gas is used as a fuel for internal combustion engines, gas turbines, or boilers to produce electricity.
 - c. Direct-use offset project – Landfill installs a system that enables an end user to utilize collected landfill gas for direct use as a valuable fuel source.
2. Project Owner and Operator Information. Provide organization legal name(s), point(s) of contact information, and physical address for the offset project owner and offset project operator. Provide organization legal name, point(s) of contact information, and physical address for the parent company if the owner or operator is a subsidiary.
3. Landfill Location and Specifications. Provide the following information and include as an appendix to the narrative a copy of the Solid Waste License for the landfill where the offset project and landfill gas collection system are located:
 - a. Landfill location (city, state, zip code) and site I.D. number from the Solid Waste License;
 - b. Types of waste accepted (municipal solid waste, non-hazardous sludge, industrial waste, construction and demolition debris, medical waste, or specify other) as stated in the Solid Waste License;
 - c. Opening year from the Solid Waste License;
 - d. Closing year (if applicable) or estimated date of closure from the Solid Waste License or approved closure plan;
 - e. Total design waste capacity (specify cubic feet or tons) from the Solid Waste License;
 - f. Current area (specify hectares or acres) devoted to landfilling from the Solid Waste License, or if not available, from contour maps and filling plans;
 - g. Average waste depth (in feet) from the Solid Waste License, or if not available, from contour maps and filling plans;

- h. Total waste in place from weigh scale records, the most recent Solid Waste Annual Report, or other documented source;
 - i. Waste characteristics (food waste, wood, plastics, metal, paper, and specify other) represented as either percent of total mass or volume currently accepted, from weigh scale records of waste characterization and site-specific density records;
 - j. Annual quantity of accepted waste (specify cubic feet or tons) for most recent year from weigh scale records, the most recent Solid Waste Annual Report, or other documented source; and
 - k. Average annual rainfall for location of landfill from NOAA's National Climatic Data Center (NCDC).
4. Landfill Owner and Operator Information. Provide organization legal name(s), point(s) of contact information, and physical address for the landfill owner and landfill operator. Include organization legal name, point(s) of contact information, and physical address for the parent company if the owner or operator is a subsidiary.
5. Equipment Specifications and Technical Schematic. Provide the following offset project equipment specifications:
- a. Landfill gas collection equipment and landfill gas flow and composition monitoring equipment specifications including:
 - i. Type(s) of equipment and manufacturer(s);
 - ii. Dates of installation;
 - iii. Dates of initial calibration;
 - iv. Design landfill gas flow capacity (standard cubic feet per minute);
 - v. Installed landfill gas flow meter accuracy; and
 - vi. Methane concentration instrument thresholds (percent by volume) and methane concentration instrument precision and accuracy levels as specified by the manufacturer.
 - b. For on-site flare projects:
 - i. Type of flare(s) (open, enclosed, or specify other) and manufacturer(s); and
 - ii. Design capacity of flare flow rate in standard cubic feet per minute as specified by the manufacturer.
 - c. For on-site or off-site electricity generation projects:
 - i. Type of electricity generation technology (reciprocating engine, gas turbine, cogeneration, microturbine, steam turbine, combined cycle, organic Rankine cycle, or specify other);
 - ii. Make (or model), manufacturer, and date of installation of combustion unit;
 - iii. Design electricity generation capacity in units of MWe, as specified by the manufacturer;
 - iv. Heat rate of combustion (Btu/kWh), as specified by the manufacturer; and

- v. Name, address, and point(s) of contact for each off-site purchaser of landfill gas.
- d. For on-site or off-site direct-use projects:
 - i. Type of direct-use project (boiler, direct thermal, leachate evaporation, high-Btu quality fuel, medium-Btu quality fuel, methanol synthesis, or specify other);
 - ii. Make (or model), manufacturer, and date of installation of combustion unit;
 - iii. Pipeline length, diameter, and material type as documented by the Solid Waste License or other similar document; and
 - iv. Name, address, and point(s) of contact for each off-site purchaser of landfill gas.
- e. A technical schematic outlining the overall landfill gas capture and destruction system for the type of offset project (flare, electricity generation, or on-site or off-site direct use). The schematic must trace the landfill methane from source to destruction by combustion.

Form 2.2 Demonstration of Eligibility

Attach documentation, with state and federal identification numbers, as applicable, that indicates that the landfill or landfill units from which the offset project will draw landfill gas is/are not subject to federal New Source Performance Standards (NSPS) for municipal solid waste landfills, 40 CFR Part 60, Subpart Cc and Subpart WWW. The documentation should include the initial design capacity report, the current annual non-methane organic compound (NMOC) emission rate report and, if applicable, the amended design capacity report as described in the reporting requirements at 40 CFR Part 60.

Attach the results of calculations of estimated NMOC emissions (in megagrams per year) for the most recent year available, including supporting data and calculations performed in accordance with the test methods and procedures specified at 40 CFR Part 60, Subpart WWW 60.754.

Each attachment must include a header that indicates it is an attachment to Form 2.2 and includes the offset project name and offset project ID code.

In the editable text fields in the form, enter the estimated date that the landfill will exceed the NSPS NMOC threshold, and the Tier type (i.e., Tier 1, Tier 2, or Tier 3) of emission rate estimates performed in accordance with the test methods and procedures specified at 40 CFR Part 60, Subpart WWW 60.754.

Form 2.3 Monitoring and Verification (M&V) Plan

Provide the Monitoring and Verification Plan (M&V Plan) as an attachment to Form 2.3. The M&V Plan must include a header that indicates it is an attachment to Form 2.3 and includes the offset project name and offset project ID code. Check the boxes to indicate that the attached M&V Plan includes required components.

The M&V Plan must include the following:

1. Procedures for Quantifying Annual CO₂-equivalent Emissions Reductions. Specify the data source(s) and the calculations to be used to determine emission reductions.
2. Procedures for Quantifying Annual Volume of Methane Collected. Specify the data sources and calculations to be used for quantifying in standard cubic feet (scf) annual volume of methane collected.
3. Procedures for Quantifying Mass of Methane per Cubic Foot of Methane. Specify whether the default value of 0.04246 lbs/scf at 1 atmosphere and 20° C will be used, or specify the procedures that will be used to monitor temperature and pressure, derive an alternate representative temperature, and the data sources and value for the appropriate mass of CH₄ per standard cubic foot of methane (lbs/scf).
4. Quality Assurance/Quality Control (QA/QC) Program for Measuring Equipment. Document the QA/QC program, including the following:
 - a. Procedures for recording names and contact information for: personnel responsible for recording measurements and data entry, QA/QC managers, and third party analytical laboratory;
 - b. Procedures for designated personnel to keep landfill gas sales records (in MMBtu or standard cubic feet), electricity sales records, records of measured heat rate of combustion device if applicable, and records of newly installed equipment and retired equipment;
 - c. Procedures for annual comparison of collected methane measured by monitoring equipment with calculated methane in landfill gas used to generate electricity or sold for direct use, noting any discrepancies;
 - d. Calculation procedures for standardizing landfill gas flow that correct for documented site-specific temperature and pressure measurements. (This procedure is not necessary when using flow meters that automatically measure temperature and pressure and express landfill gas flow in standard cubic feet); and
 - e. Description of the contents of an annual quality control report describing the procedures for QA/QC of landfill gas collection and monitoring equipment during the reporting period and a schedule for the annual completion of such report. The report should identify findings of quarterly reviews, issues encountered, and remedial actions taken.

5. Maintenance, Operation, and Calibration of Measuring and Monitoring Equipment. Document the protocol for maintenance, operation, and calibration of measuring and monitoring equipment, including the following:
 - a. Maintenance of Measuring and Monitoring Equipment. Document the protocol that will be used to ensure that the following required actions are performed and documented:
 - i. Records are kept of landfill gas flow rate performance tests at least monthly to ensure:
 - (A) flow readings are recorded at least every 15 minutes;
 - (B) the accuracy of landfill gas flow meter readings is within +/- 5 percent of manufacturer specifications; and
 - (C) methane concentration instrument manufacturer specifications for precision and accuracy are met; and
 - ii. Maintenance schedules for landfill gas flow meter and methane concentration instrument (for permanent and/or portable equipment) are performed in accordance with manufacturer recommendations and specifications.
 - b. Operation of Measuring and Monitoring Equipment. Document the protocol that will be used to ensure that the following required actions are performed and documented:
 - i. Records are kept at least daily of collected landfill gas flow rates and methane concentration;
 - ii. Records are kept on a monthly basis of the number of hours that the landfill gas collection system was not in operation;
 - iii. Records are kept on a monthly basis of the number of hours that the combustion device (e.g., flare, boiler, electricity generation unit) was not in operation;
 - iv. Records are kept on a monthly basis of the calculation of landfill gas flow rate standardization (in standard cubic feet per day) to correct for site-specific pressure and temperature measurements. (This procedure is not necessary when using flow meters that automatically measure temperature and pressure and express landfill gas flow in standard cubic feet);
 - v. Records are kept on an annual basis of the measured heat rate of combustion of the electric generation unit(s) (in Btu/kWh) in accordance with manufacturer specifications for landfill gas, if applicable to the offset project; and
 - vi. Records are kept on a monthly basis of the amount of landfill gas combusted in standard cubic feet (scf) in the combustion device.
 - c. Calibration of Measuring and Monitoring Equipment. Document the protocol that will be used to ensure that the following required actions are performed and documented:
 - i. Records are kept of calibration procedures for landfill gas flow monitoring equipment as specified by the manufacturer;

- ii. Records are kept of calibration procedures for permanent methane concentration measurement equipment as specified by the manufacturer; and
 - iii. Calibration schedules for landfill gas flow meter and methane concentration instrument (for permanent and/or portable equipment) are maintained in accordance with manufacturer recommendations and specifications.
6. Records Retention. Document the recordkeeping protocol that will be used to maintain record keeping throughout the duration of the offset project, including maintenance of an electronic index of all material to be collected, and storage procedures to ensure maintenance of collected information in electronic and/or hardcopy form for the following required information:
- a. QA/QC Program for Measuring Equipment.
 - i. Names and contact information for the following:
 - (A) personnel responsible for recording measurements;
 - (B) personnel responsible for data entry;
 - (C) QA/QC managers; and
 - (D) third-party analytical laboratory; and
 - ii. Annual QA/QC reports and the associated findings and remedial actions taken; and
 - iii. Annual comparison of collected methane as measured by monitoring equipment with calculated methane used to generate electricity or landfill gas sold, if applicable to the offset project.
 - b. Maintenance of Measuring and Monitoring Equipment.
 - i. Records of all installed equipment and retired equipment related to landfill gas collection system and landfill gas combustion;
 - ii. Landfill gas flow meter performance tests for each month;
 - iii. Methane concentration instrument performance tests for each month; and
 - iv. Maintenance schedules for landfill gas flow meter and methane concentration instrument.
 - c. Operation of Measuring and Monitoring Equipment.
 - i. Landfill gas sales records (in MMBtu or standard cubic feet of methane) or electricity sales records (in kWh) for each month, if applicable to the offset project;
 - ii. Landfill gas flow meter readings in at least 15 minute intervals;
 - iii. Methane concentration instrument readings in at least daily intervals;
 - iv. Landfill gas collection system operating hours for each month;
 - v. Combustion device operating hours for each month;
 - vi. Landfill gas flow meter pressure and temperature measurements for each month;

- vii. Heat rate of combustion of electric generation unit(s) for reporting year, if applicable to the offset project; and
 - viii. Methane combustion data for combustion device in at least 15 minute intervals.
- d. Calibration of Measuring and Monitoring Equipment.
- i. Calibration procedures and schedules for landfill gas flow meter and methane concentration instrument (for permanent and/or portable equipment).
7. Independent Verification of Landfill Gas Methane Composition. Document the process that will be used to perform annual third-party analysis of sampled landfill gas methane composition. Provide as an appendix to the M&V Plan a copy of the contract (with financial information redacted) for annual third-party laboratory analysis of sampled landfill gas using U.S. EPA-approved laboratory testing methods (e.g., see U.S. EPA Method 3C available at: www.epa.gov/ttn/emc/promgate). Document the protocol that will be used to ensure that the landfill gas samples will be taken at the same location as the landfill gas flow meter.

Offset Project Name

Offset Project ID Code

Form 2.1 – Project Description

Attach a detailed narrative of the actions to be taken as part of the offset project. The attached narrative must include a header that indicates it is an attachment to Form 2.1 and identifies the offset project name and offset project ID code.

Check the boxes below to indicate that the detailed narrative of the offset project includes the following required information:

- 1. Type of project
- 2. Project owner and operator information
- 3. Landfill location and specifications
- 4. Landfill owner and operator information
- 5. Equipment specifications and technical schematic

Offset Project Name

Offset Project ID Code

Form 2.2 – Demonstration of Eligibility

Attach documentation that the offset project meets eligibility requirements. Attached documentation must include a header that indicates it is an attachment to Form 2.2 and includes the offset project name and offset project ID code.

Check the boxes below to indicate that the following required documentation is attached:

- Documentation that the landfill methane offset project will occur at a landfill or landfill unit(s) not subject to federal New Source Performance Standards (NSPS) for municipal solid waste landfills, 40 CFR Part 60 Subpart Cc and Subpart WWW. Documentation includes the initial design capacity report, the current annual non-methane organic compound (NMOC) emission rate report and, if applicable, the amended design capacity report as described in the notification and record keeping requirements at 40 CFR Part 60.
- Calculation results of NMOC emissions estimate (in megagrams per year) and supporting data for most recent year available, performed in accordance with the test methods and procedures specified at 40 CFR Part 60, Subpart WWW 60.754.

Enter the estimated date that the landfill will exceed the NSPS NMOC threshold, and enter the Tier type (i.e., Tier 1, Tier 2, or Tier 3) of emission rate estimate, performed in accordance with the test methods and procedures specified at 40 CFR Part 60, Subpart WWW 60.754.

Estimated Date of NSPS NMOC Threshold Exceedance (MM/DD/YYYY):

Tier Type (i.e., Tier 1, Tier 2, or Tier 3) Used for Emission Rate Estimates

Offset Project Name

Offset Project ID Code

Form 2.3 – Monitoring and Verification Plan

Attach the Monitoring and Verification Plan (M&V Plan). The M&V Plan must include a header that indicates it is an attachment to Form 2.3 and includes the offset project name and offset project ID code.

Check the boxes below to indicate that the attached M&V Plan includes the following required information:

- 1. Procedures for quantifying annual CO₂-equivalent emissions reductions
- 2. Procedures for quantifying annual volume of methane collected
- 3. Procedures for quantifying mass of methane per cubic feet of methane
- 4. Documentation of the quality assurance/quality control (QA/QC) program for measuring equipment
- 5. Documentation of the protocol for maintenance, operation, and calibration of measuring and monitoring equipment
- 6. Documentation of the protocol for records retention
- 7. Documentation of the process for independent verification of landfill gas methane composition

Part 3. Independent Verification Form

The form in Part 3 of the *Consistency Application* addresses the requirements and documentation related to the independent verifier certification statement and report. Instructions for the form in Part 3 are provided below.

Form 3.1 Independent Verifier Certification Statement and Report

An accredited independent verifier must sign and date the form. Submit the originally signed form as part of the paper hardcopy of the *Consistency Application*. Scan the signed and dated form for submission as part of the electronic version of the *Consistency Application*.

Provide the independent verifier report as an attachment to Form 3.1. The verifier report must include a header that indicates it is an attachment to Form 3.1 and includes the offset project name and offset project ID code.

The verifier report must document the following:

1. The verifier has reviewed the entire *Consistency Application* and evaluated the contents of the application in relation to the applicable requirements of Maine's CO₂ Budget Trading Program.
2. The verifier has evaluated the adequacy and validity of information supplied by the Project Sponsor to demonstrate that the offset project meets the applicable eligibility requirements of Maine's CO₂ Budget Trading Program.
3. The verifier has evaluated the adequacy of the monitoring and verification plan submitted pursuant to Maine's CO₂ Budget Trading Program.

The verifier report must include the following contents, in the order listed below:

- Cover page with report title and date
- Table of contents
- List of acronyms and abbreviations
- Executive summary
- Description of objective of report
- Identification of the client, including name, address, and other contact information
- Identification of the offset project
- Description of evaluation criteria (applicable regulatory provisions and documentation requirements specified in *Consistency Application*)
- Description of the review and evaluation process, including any site visits and interviews
- Identification of individuals performing the verification work, including the verification team leader and key personnel, and contact information for the team leader
- Description of the materials provided to the verifier by the Project Sponsor
- Evaluation conclusions and findings, including level of assurance provided

Offset Project Name

Offset Project ID Code

Form 3.1 – Independent Verifier Certification Statement and Report

An accredited independent verifier must sign and date Form 3.1. Attach the accredited independent verifier report. The attached verifier report must include a header that indicates it is an attachment to Form 3.1 and includes the offset project name and offset project ID code

Name of Accredited Independent Verifier

I certify that the accredited independent verifier identified above reviewed the *Consistency Application*, including all forms and attachments, in its entirety, including a review of the following:

- (a) The adequacy and validity of information supplied by the Project Sponsor to demonstrate that the offset project meets the applicable eligibility requirements of Maine’s CO₂ Budget Trading Program, including the required documentation that must be provided in the *Consistency Application*.
- (b) The adequacy of the Monitoring and Verification Plan in accordance with the applicable requirements of Maine’s CO₂ Budget Trading Program, including the required documentation that must be provided in the *Consistency Application*.

A verification report is attached that documents the verifier’s review of the items listed above and includes evaluation conclusions and findings.

Verifier Representative signature

date

printed name

title

notary