		CDM Project Activity Registration and Validation Report Form <i>(By submitting this form, designated operational entity confirms that the proposed CDM project activity meets all validation and registration requirements and thereby requests its registration)</i>	
Section 1: Request for registration			
Name of the designated operational entity (DOE) submitting this form		Det Norske Veritas Certification Ltd. (DNV)	
Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration		ESTRE'S Paulinia Landfill Gas Project (EPLGP)	
Project participants (Name(s))		Empresa de Saneamento e Tratamento de Resíduos Ltda (ESTRE)	
Sector in which project activity falls		Waste handling and disposal	
Is the proposed project activity a small-scale activity?		No.	
Section 2: Validation report			
List of documents to be attached to this validation report (please check mark):			
<input checked="" type="checkbox"/> The CDM-PDD of the Project activity <input checked="" type="checkbox"/> An explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations (included in DNV's Validation Report (DNV Report No. 2005-0105, rev. 03); <input type="checkbox"/> The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party that the project activity assist it in achieving sustainable development: ▪ (Attach a list of all Parties involved and attach the approval(in alphabetic order)) <input checked="" type="checkbox"/> Other documents, including any validation protocol used in the validation. ▪ DNV's Validation Report (DNV Report No. 2005-0105, rev. 03), including a validation protocol and a list of person interviewed by DOE validation team during the validation process. <input type="checkbox"/> Information on when and how the above validation report is made publicly available. <input type="checkbox"/> Banking information on the payment of the non-reimbursable registration fee. <input type="checkbox"/> A statement signed by all project participants stipulating the modalities of communicating with the Executive Border and the secretariat in particular with regard to instructions regarding allocation of CERs at issuance.			

Executive Summary and Introduction, including

- **Description of the proposed CDM project activity**
- **Scope of validation process (include all documentation that has been reviewed and name persons that have been interviewed as part of the validation, as applicable)**
- **DOE Validation team (list of all persons involved in the validation, describing functions assumed in the validation)**

The ESTRE'S Paulinia Landfill Gas Project is a landfill gas collection project in Brazil. The project's core idea is to avoid methane emissions from the landfill managed by ESTRE in the Paulinia municipality. Emission reductions are claimed from landfill gas captured by an active gas recovery system in the landfill, and to burn in a flare the methane of landfill gas.

The validation scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board. The validation team has, based on the recommendations in the Validation and Verification Manual employed a risk-based approach, focusing on the identification of significant risks for project implementation and the generation of CERs.

The following documents were reviewed:

ESTRE's Paulinia Landfill Gas Project (EPLGP) PDD. August 2004;
 ESTRE's Paulinia Landfill Gas Project (EPLGP) PDD. December 2004;
 ESTRE's Paulinia Landfill Gas Project (EPLGP) PDD. April 2005;
 ESTRE: Environment Management System (ISO 14001) procedures, documents and records
 Letters for local stakeholders
 International Emission Trading Association (IETA) & the World Bank's Prototype Carbon Fund (PCF): Validation and Verification Manual. <http://www.vvmanual.info>
 Approved Baseline Methodology AM 0003: Simplified Financial Analysis for Landfill Gas Capture Projects. Version 01 of 12 January 2004
 Approved Monitoring Methodology AM0003: Simplified Financial Analysis for Landfill Gas Capture Projects Version 01 of 12 January 2004

The following persons were interviewed:

Alex Schlosser (ESTRE)
 Helvécio Borges Guimarães (ECONERGY)

The validation team consisted of the following personnel:

Mr Alexandre Ribeiro Valle	DNV Belo Horizonte
Mrs Susanne Haefeli	DNV Oslo
Luis Filipe Tavares	Waste management sector expert
Mr Michael Lehmann	DNV Oslo

For further details, please refer to the "Introduction" and "References" Sections of DNV Validation Report (DNV Report No. 2005-0105, rev. 03).

Description of methodology for carrying out validation

- Review of CDM-PDD and additional documentation attached to it
- Assessment against CDM requirements (e.g. by use of a validation protocol)
- Report of findings by the DOE, e.g. by use of type of findings (e.g. corrective action requests, clarifications or observations). Please explain the way findings are “labelled” during validation.
- Include statements or assessments in the section “Conclusions, final comments and validation opinion” below.

The Validation consisted of the following three phases:

- a desk review of the project design documents;
- follow-up interview with project stakeholders;
- the resolution of outstanding issues and the issuance of a validation report and opinion.

The Project Design Document submitted by ESTRE'S Paulinia Landfill Gas Project on August 2004, the second version PDD of December 2004 and the final version PDD of April 2005 were reviewed.

On 8 December 2004, DNV performed interviews with Econergy and Estre and carried out at a site visit at the ESTRE landfill at Paulinia, São Paulo state, to confirm selected information and to resolve issues identified in the document review.

In order to ensure transparency, a validation protocol has been customized for the Project, according to the Validation and Verification Manual. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from validation the identified criteria.

Findings established during the validation can either be seen as a non-fulfilment of validation criteria or where a risk to the fulfilment of project objectives is identified. Such findings are termed Corrective Action Requests (CAR). The term Clarification may be used where additional information is needed to fully clarify an issue. The Corrective Action Requests and Clarifications raised by the validation team were resolved through communications with the project participants. To guarantee the transparency of the validation process, the concerns raised by DNV and the response provided by the project participants are documented in Table 3 of Validation Protocol in Appendix A of DNV's Validation Report of 5 January 2005 (DNV Report No. 2005-0105, rev. 03).

For further details, please refer to the “Methodology” Section DNV's Validation Report (DNV Report No. 2005-0105, rev. 03) and the IETA/PCF Validation and Verification Manual (www.vvmanual.info)

Explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations;

- Description of how and when the PDD was made publicly available
- Description of how comments were received and made publicly available
- Explanation of how due account has been taken of comments received
- Compilation of all comments received (Identify the submitter)

DNV published the PDD of December 2004 on DNV's Climate Change website (www.dnv.com/Certification/ClimateChange) and stakeholders were through the UNFCCC CDM web site invited to provide comments within a 30 days period from 24 December 2004 to 23 January 2005. No comments were received.

Conclusions, final comments and validation opinion

- **Provide conclusions on each requirement under paragraph 37 of the CDM modalities and procedures, describing how these requirements have been met. This shall include assessments and findings (e.g. corrective action requests, clarifications or observations) in relation to each requirement, including a confirmation that all issues raised have been addressed to the satisfaction of the DOE.**
- **Final comments and validation opinion**

Det Norske Veritas Certification Ltd. (DNV) has performed a validation of the “ESTRE’s Paulínia Landfill Gas Project” at Paulínia, São Paulo State, Brazil (hereafter called “the project”). The validation was performed on the basis of UNFCCC criteria for CDM project activities and relevant Brazilian criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The project participant is ESTRE. The host Party Brazil meets all relevant participation requirements. No Annex I Party is yet identified.

The project proposes to collect and combust or flare landfill gas (LFG) captured at the ESTRE Paulínia Landfill. By flaring LFG, the project results in the reduction of CH₄ emissions that is real, measurable and gives long-term benefits and that is additional to what would have occurred in the absence of the project. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions.

The project is not expected to have considerable environmental impacts. ESTRE’s landfill has an Environmental Licence. The Environmental License for LFG recovery and flaring has not yet been obtained. Given that the flaring of landfill gas has little adverse or no different environmental impacts, it is likely that the licence will be obtained when the project is implemented. The first period verification of the project must verify that this licence was eventually obtained.


The project applies the approved baseline and monitoring methodology AM0003, i.e. “Simplified financial analysis for landfill gas capture projects”. The baseline methodology has been applied correctly and the assumptions made for the selected baseline scenario are sound. It is sufficiently demonstrated that the project is not a likely baseline scenario and that emission reductions attributable to the project are additional to any that would occur in the absence of the project activity.

The monitoring plan sufficiently specifies the monitoring requirements of the main project indicators.

Local stakeholder comments were invited according to the Brazilian DNA Resolution 1 and Parties, stakeholders and NGOs were invited to comment on the validation requirements. No comments were received.

In summary, it is DNV’s opinion that the “ESTRE’s Paulínia Landfill Gas Project (EPLGP)” as described in the revised and resubmitted project design document of April 2005, meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria and correctly applies the baseline and monitoring methodology for AM0003 CDM project activities. Hence, DNV will request the registration of the “ESTRE’s Paulínia Landfill Gas Project (EPLGP)” as CDM project activity.

For further details, please refer to the “Validation Findings” Section and Table 1 of the Validation Protocol in Appendix A of DNV’s Validation Report (DNV Report No. 2005-0105, rev. 03).

The DOE declares herewith that in undertaking the validation of this proposed CDM project activity it has no financial interest related to the proposed CDM project activity and that undertaking such a validation does not constitute a conflict of interest which is incompatible with the role of a DOE under the CDM.		
By submitting this validation report, the DOE confirms that all validation requirements are met.	Prior to the submission of this validation report to the CDM Executive Board, DNV will have to receive the written approval of voluntary participation from the Brazilian DNA, including confirmation that the project assists in achieving sustainable development.	
Name of authorized officer signing for the DOE	Michael Lehmann	
Date and signature for the DOE	 20 July 2005	
Section below to be filled by UNFCCC secretariat		
Date when the form is received at UNFCCC secretariat		
Date at which the registration fee has been received		
Date at which registration shall be deemed final		
Date of request for review, if applicable		
Date and number of registration	Date	Number