CDM Project Activity Registration and Validation Report Form

(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)

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	Coruripe Bagasse Cogeneration Project (CBCP)
Project participants (Name(s))	S.A. Usina Coruripe de Açúcar e Álcool (Brazil) Econergy Brasil Ltda (Brazil)
Sector in which project activity falls	Energy Industry, renewable sources
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)*:*	

- ☑ The CDM-PDD of the Project activity
- ☑ 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 (Note: Included in DNV's Validation Report (DNV report 2004-0981, rev. 01));
- ❑ The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party hat the project activity assist it in achieving sustainable development:
  - (Attach a list of all Parties involved and attach the approval(in alphabetic order))
- ☑ Other documents, including any validation protocol used in the validation.
  - DNV's Validation Report (DNV report 2004-0981, rev. 01), including a validation protocol and a list of person interviewed by DNV validation team during the validation process.
- ❑ Information on when and how the above validation report is made publicly available.
- ❑ Banking information on the payment of the non-reimbursable registration fee.
- ❑ 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 "Coruripe Bagasse Cogeneration Project (CBCP)" involves the increase of the bagasse cogeneration capacity and the improvement of the energy efficiency at the Coruripe sugar cane mill, located in the municipality of Coruripe, Alagoas State. The project will allow Coruripe to supply electricity to the grid, increasing its efficiency from 16 MW to 32 MW. The project will start operation in 02 January 2006. With the implementation of this project, the mill will be able to sell the surplus electricity to the N-NE grid, avoiding the dispatch of the same amount of energy produced by fossil-fuelled thermal plants to that grid.

The validation scope is an independent and objective review of the Project Design Document (PDD). The PDD was reviewed against Kyoto Protocol criteria for the CDM, the CDM modalities and procedures as agreed in the Marrakech Accords and relevant decision by the CDM Executive Board. The validation team has, based one the recommendation in the IETA/PCF Validation and Verification Manual, employed a risk-based approach, focusing on the identification of significant risks for the project implementation and the generation of CERs.

The following documents were reviewed:

Coruripe Bagasse Cogeneration Project (CBCP) PDD. Version 1 (August 2005);

Coruripe Bagasse Cogeneration Project (CBCP) PDD. Version 2 (October 2005);

Spreadsheet of Calculation of Combined Margin (ONS database NNE 2001-2003 v. 2005-06-20)

International Emission Trading Association (IETA) & the World Bank's Prototype Carbon Fund (PCF): Validation and Verification Manual. http://www.vvmanual.info

Approved Baseline Methodology AM0015: "Bagasse-based cogeneration connected to an electricity grid". Version 01 of 22 September 2004.

Approved Monitoring Methodology AM0015: "Bagasse-based cogeneration connected to an electricity grid". Version 01 of 22 September 2004.

EB: Tool for the demonstration and assessment of additionality, EB 16 Report, Annex 1.

Bosi, M., A. Laurence, P. Maldonado, R. Schaeffer, A. F. Simoes, H. Winkler and J.-M. Lukamba. Road testing baselines for greenhouse gas mitigation projects in the electric power sector. OECD and IEA information paper, October 2002.

The following persons were interviewed:

David Freire da Costa – Consultant of Econergy
Cosme F. de Sousa Junior– Coruripe Alagoas – Contract Manager

The validation team consisted of the following personnel:

Ms. Cintia Dias .	DNV Rio de Janeiro	Team leader
Mr. Luis Filipe Tavares	DNV Rio de Janeiro	CDM auditor
Mr. Vicente San Valero	DNV Rio de Janeiro	CDM auditor
Mr. Einar Telnes	DNV Oslo	Energy sector expert/Technical reviewer

For further details, please refer to the "Introduction" and "References" Sections of DNV's Validation Report (DNV Report 2004-0981, rev. 01).

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 of the project started in August 2005. The Validation consists of the following three phases:

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

The original and revised versions of the project design document (PDD) submitted by the project participants were reviewed. Additional background documents related to the project design and the baseline were also consulted.

On 05 October 2005, DNV performed interviews with Coruripe and Econergy 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 ad 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 requests for Clarification 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 the Validation Protocol in Appendix A of DNV's Validation Report. (DNV report 2004-0981, rev. 01).

For further details, please refer to the "Methodology" Section of DNV's Validation Report (DNV Report 2004-0981, rev. 01) and the IETA/PCF Validation ad 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 Certification published the PDD of August 2005 on the DNV Climate Change web site (http://www.dnv.com/certification/ClimateChange) and Parties, stakeholders and NGOs are, through the UNFCCC CDM web site, invited to provide comments during the period from 16 August 2005 to 14 September 2005. No comment was 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 meet. 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 "Coruripe Bagasse Cogeneration Project (CBCP)" at Coruripe Municipality, Alagoas 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 participants are S.A. Usina Coruripe de Açúcar e Álcool of Brazil and Econergy Brasil Ltda of Brazil. The host Party, Brazil meets all relevant participation requirements. No participating Annex I Party is yet identified.

The project is a bagasse-based cogeneration power generation activity displacing grid electricity. Emission reductions are claimed from displacing grid electricity with electricity generated by the mill in the additional 16 MW of installed capacity to be supplied to the grid.

By promoting renewable energy, the project is in line with the current sustainable development priorities of Brazil.

The project applies the approved baseline and monitoring methodology AM0015, i.e. "Bagasse-based cogeneration connected to an electricity grid". 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.

A combined margin emission coefficient of 0.0724 tCO_2e/MWh is calculated in accordance with AM0015, i.e. the average of the approximate operating margin and the build margin. The determination of this combined margin emission coefficient is based on actual electricity generation data provided by the National Electricity System Operator (ONS) for the years 2001- 2003 for the North-Northeast grid.

The monitoring methodology has been applied correctly. The monitoring plan sufficiently specifies the monitoring requirements of the main project indicators.

By displacing fossil fuel-based electricity with electricity generated from a renewable source and by avoiding fossil fuel consumption by diesel irrigation pumps, the project results in reductions of CO_2 emissions that are real, measurable and give long-term benefits to the mitigation of climate change. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions.

Local stakeholder comments were invited according to the Brazilian DNA Resolution 1. One positive comment was received. Public stakeholder input has also been invited via the UNFCCC web-site, but no comments have been received

In summary, it is DNV's opinion that the "Coruripe Bagasse Cogeneration Project (CBCP)" as described in the revised and resubmitted project design document of October 2005, meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria and correctly applies the baseline and monitoring methodology for AM0015. Hence, DNV will request the registration of the "Coruripe Bagasse Cogeneration Project (CBCP)" 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 2004-0981, rev. 01).

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 the DNA of Brazil 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	Michael Lehmann 24 October 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